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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYUN MO KU	02/02/2015
JIN JEONG	02/02/2015
DEOG SOON CHOI	02/02/2015
CHRIS CHUNG	02/02/2015

RECEIVING PARTY DATA

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City:	SINGAPORE	
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Postal Code:	768923	

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	14611121		

CORRESPONDENCE DATA

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Correspondent Name: AVAGO TECHNOLOGIES, LTD.

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ATTORNEY DOCKET NUMBER:	2014-142USORG
NAME OF SUBMITTER: JANE BOOTH	
SIGNATURE:	/jane booth/
DATE SIGNED:	02/11/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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COMBINED DECLARATION AND				
ASSIGNMEN	1 FOR	PATENT	APPLICATION	

Number

ATTORNEY DOCKET NO.

(if applicable).

2014-142USORG

DECLARATION

As a below named inventor, I hereby declare that:

The application identified below was made or authorized to be made by mr.

I believe that I am the original inventor or original joint inventor of a claimed invention in the application for which a patent is sought on the invention entitled:

PRINTED CIRCUIT BOARD WITH THERMAL VIA
the specification of which is anached hereto unless the following box is checked:
was filed onas US Application Serial No. or PCT International Application

and was amended on

I hereby state that I have reviewed the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Thereby acknowledge that any willful false statement made in this declaration is punishable under 18. U.S.C 1001 by fine or imprisonment of not more than five (5) years, or both.

Send Correspondence to:	Direct Tele	ephone Calls	to:	×
Customer Number 57299 AVACO TECHNOLOGIES, LTD. 4380 Ziegler Road Fort Collins, CO 80525	William S. Francos (571) 283-0728	OR	Floyd E. Anderson (970) 288-0760	

ASSIGNMENT OF PATENT APPLICATION

I/We the undersigned (each) have agreed and hereby agree to assign to Avago Technologies General IP (Singapore) Ptc. Ltd. (Company Registration No. 200512430D), a company incorporated under the laws of Singapore whose registered office is at No. 1 Vishun Avenue 7, Singapore 768923 (hereinafter AVAGO), in furtherance of my/our obligations to AVAGO, and do hereby assign and transfer to AVAGO, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent of the United States and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations—in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for Patent, and any and all Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or recommutations, or extensions of said Letters Patents.

I/We additionally authorize AVAGO to file applications in my/our name for Patent in any country, to be held and enjoyed by AVAGO, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to AVAGO, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to AVAGO, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patents, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid AVAGO, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent potection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by AVAGO:

Combined Declaration/Assignment-Oct 2012

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PATENT

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AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents, inventor's certificates, utility certificates, utility models, or certificates of addition on applications as aforesaid, to issue to AVAGO, as assignee of the entire right, title and interest, any and all Patents for said invention(s) or improvement(s), including any and all Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct AVAGO attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I'we hereunto set my/our hand(s):

	Given Name	Middle Name	Family Name	
Full Name of Sole or First Inventor:	Hyun Ma		Ku	
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S.4.	-	Feb, 62.2015		
- J/N-2	,	Date		
Inventor's Signature		2017		
			and the same	
	Given Name	Middle Name	Family Name	
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		_1th.CL	40/5	
Inventor's Signature)	Date	my e	
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VFII. INCHIANGE	Ingg., 213, rangiaez-cong, seochor		2 <i>0 /</i>	
		F28-02		
Inventor's Signature		Odd.		
<i>.</i> }				
ε	Given Name	Middle Name	Family Name Chung	
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KNCL	<u> </u>	2/2/20	<u>/ </u>	
Inventor's Signature		Date		
		2	Proceeding Application	
r	Given Name	Middle Name	Family Name	
Full Name of # 5 Joint Inventor:				
Residence: Correspondence:				
Inventor's Signature		Date		
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